## (19) World Intellectual Property Organization

International Bureau





## 

PCT

## (10) International Publication Number WO 2004/013237 A1

(51) International Patent Classification<sup>7</sup>:

C09D 11/02

(21) International Application Number:

PCT/EP2003/007772

(22) International Filing Date:

17 July 2003 (17.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02405651.7

26 July 2002 (26.07.2002)

(71) Applicant (for all designated States except US): CIBA SPECIALTY CHEMICALS HOLDING INC. [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FRASER, Iain, Frank [GB/GB]; 45 Stoneyholm Road, Kilbirnie KA25 7JS (GB). NIVEN, Stuart, Cook [GB/GB]; 15 Benbain Place, Girdle Toll, Irvine, Ayrshire KA11 1RG (GB). WILCOX, Joyce [GB/GB]; 35 Lammermuir Drive, Paisley PA2 8BP (GB).

(74) Common Representative: CIBA SPECIALTY CHEMI-CALS HOLDING INC.; Patentabteilung, Klybeckstrasse 141, CH-4057 Basel (CH).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Published:**

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ORGANIC SOLVENT-BASED PRINTING INKS

(57) Abstract: An organic solvent-based printing ink composition which comprises a cationic dyestuff of the indole class, an organic solvent, an organic acid which preferably is a resin acid, soluble in the organic solvent, and optionally an organic pigment. The cationic dyestuff is formed (in situ) from its carbinol precursor. The compositions show for example high color strength and excellent rheological properties and can be used in publication or packaging gravure flexographic, lithographic or letterpress printing processes.